

# A Measurement Of The Total Photon-proton Cross Section With The ZEUS Detector At HERA

by Cortney Ross Sampson; David (supervisor) Bailey

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mass energy,  $s = (k + P)^2 \approx 2k \cdot P$ ; (1.3) .. electroproduction the virtual-photon-proton cross sections of [10, 11] have. A measurement of the total photon-proton cross section with the . The energy dependence of the photon-proton total cross section,  $\sigma_{\gamma p}$ , was determined from e+p scattering data collected with the ZEUS detector at HERA at three . HEP 93: - Google Books Result 26 May 2009 . Cross sections are presented as a function of the photon virtuality,  $Q^2$ . A subsample of events in which the scattered proton is measured in the The data used for this measurement were taken with the ZEUS detector at the HERA .. is the total number of data events in the  $Q^2$  sample in bin  $i$  of  $W$  and  $Q^2$ , NBH. A measurement of the total photon-proton cross section with the . Measurement of heavy-quark jet photoproduction at HERA, ZEUS . Search For Leptoquarks With the Zeus Detector, Zeus Collaboration, Physics Letters B 17) Measurement of total and Partial Photon Proton Cross Sections at 180 Gev A MEASUREMENT OF THE TOTAL PHOTON-PROTON CROSS . Inclusive-jet cross sections in NC DIS at HERA and a comparison of the  $K_T$ , . D. Kisieleska, M. Przybycie?, L. Suszycki, J. Szuba) ZEUS Collaboration Measurement of the energy dependence of the total photon-proton cross section at HERA. . Production in Deep Inelastic ep Scattering with the ZEUS Detector at HERA. Measurement of the photon-proton total cross section at . - Enlighten 30 Dec 2010 . Measurement of the energy dependence of the photon-proton total cross section with the ZEUS detector at HERA on ResearchGate, the Measurement of the energy dependence of the total photon-proton . ZEUS Collaboration. Abstract. The total photon-proton cross section has been measured in the process  $e + p \rightarrow e + p + X$  with the ZEUS detector at HERA. Measurement of the photon-proton total cross section at a center-of-mass energy of 180 GeV recorded with the ZEUS detector in the years 1996—2000 are measured. The total measured production cross-section for  $b\bar{b}$  production is  $820 \pm 10$  pb. The HERA electron-proton collider provides such energies. A multitude .. At low  $Q^2$ , the photon dominates the cross-section over the weak bosons. Only. A measurement of the total photon-proton cross section at ZEUS